

Technologies for economical and functional lightweight design: conference proceedings 2018

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20509636&lokasi=lokal>

Abstrak

This book comprises the proceedings of the conference Faszination Hybrider Leichtbau 2018, which took place in Wolfsburg.

The conference focused on new methods and technologies for the development and production of multifunctional and hybrid lightweight solutions in large-scale vehicle manufacturing. Further, it promoted the exchange of insights and lessons learned between experts from industry and academia.

Lightweight design and construction are key technologies for the development of sustainable and resource-efficient mobility concepts. Material hybrid structures, which combine the advantages of different materials (e.g. fiber-reinforced plastics and metals), have a high potential for reducing weight, while simultaneously expanding component functionality. However, the efficient use of functional integrated hybrid structures in vehicle construction, requires innovations and constant developments in vehicle and production technology. There is a great demand for affordable lightweight construction in mass production that takes into account the increasing requirements in terms of variant diversity, safety and quality- particularly with regards to new methods and technologies.